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1917

# COTTON PICKER ROOM MACHINERY



TS 1578  
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Frank T. Allen







# COTTON PICKER ROOM MACHINERY

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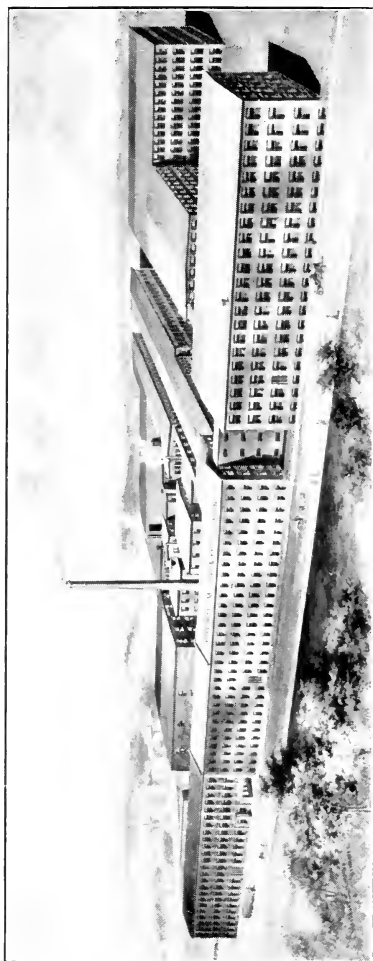
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**WOONSOCKET MACHINE & PRESS CO.**

WOONSOCKET, RHODE ISLAND, U. S. A.

*Makers of*

Feeders	Drawing Frames	Intermediate Pickers
Bale Breakers	Slubbers	Roving Waste Openers
Breaker Pickers	Roving Frames	Revolving Top Flat Cards
Finisher Pickers	Openers	Intermediate Frames
Thread Extractors	Conveyors	Jack Frames



Works of Woonsocket Machine & Press Company  
Woonsocket, Rhode Island, U.S.A.



## Introductory

**I**N the manufacture of the machines illustrated and described in the following pages we have given long study to the demands of cotton spinners.

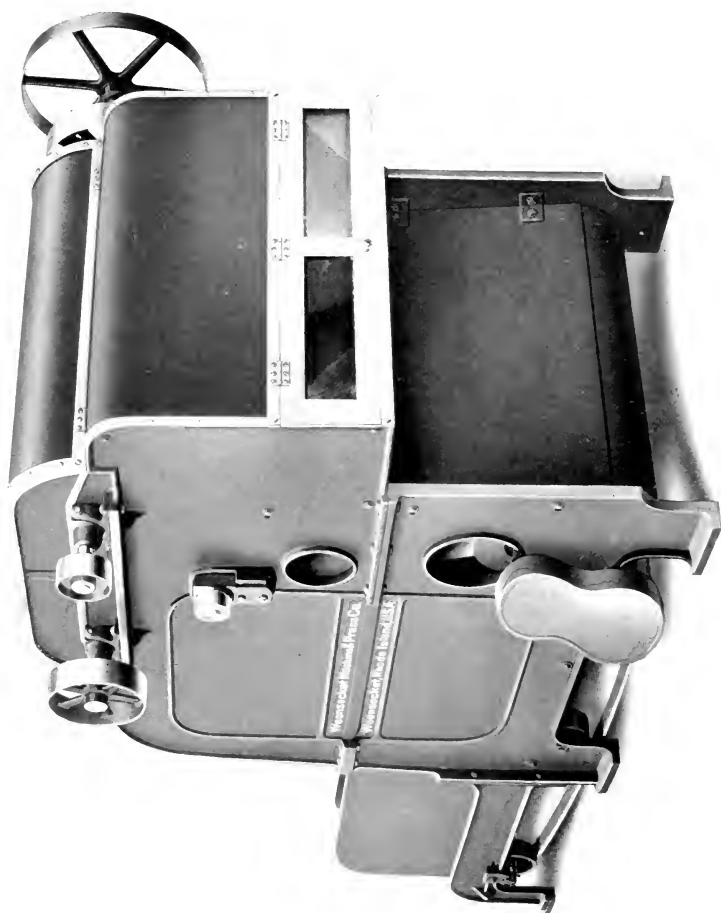
The result is a higher standard of Picker Room equipment than has been produced heretofore.

We would invite attention to the principles, improvements, and conveniences of operation which are provided in each of the various machines here included.

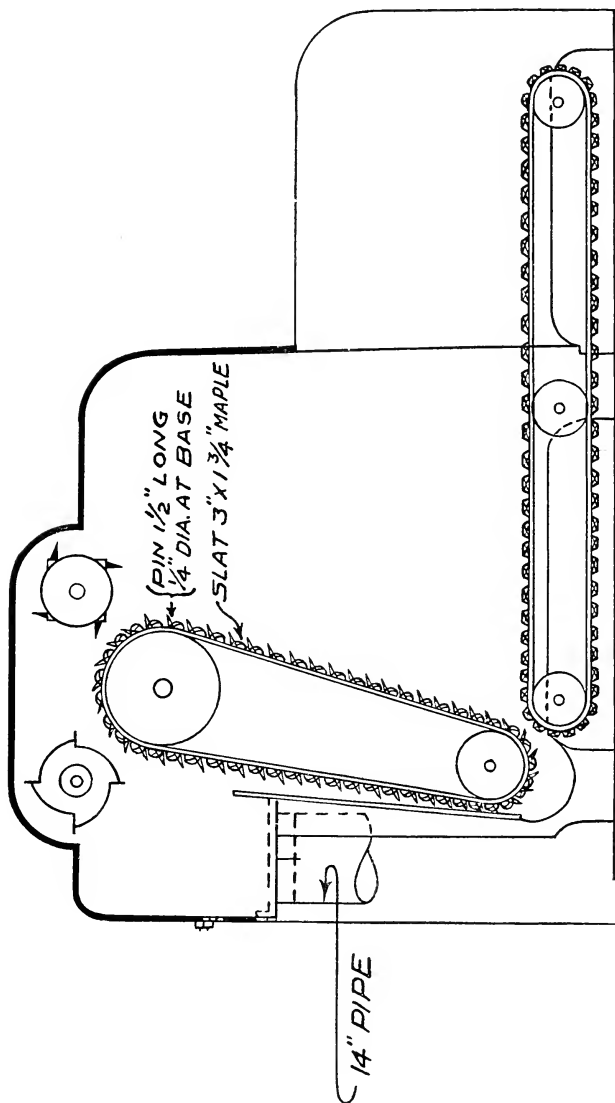
Combined with these points of efficiency are the high-class workmanship and material which have entered into the construction of all our products for forty years.

Thus we are enabled to offer to the manufacturer an equipment that will meet his most exacting demands and produce clean, even, and uniform laps — the first requirement of successful subsequent processes.

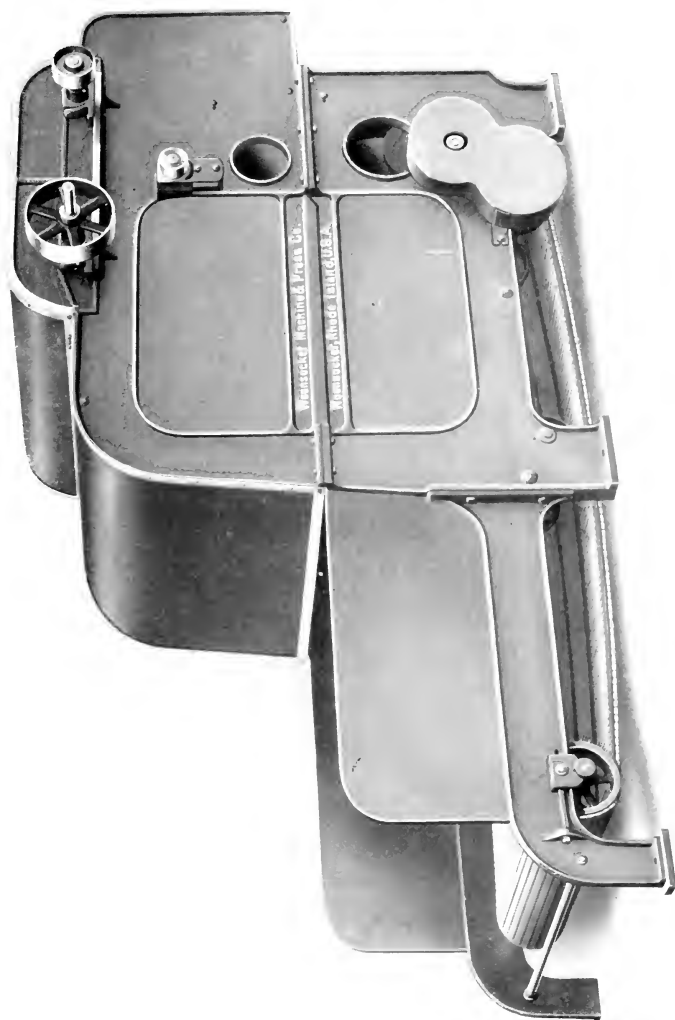
WOONSOCKET MACHINE & PRESS CO.



**Hopper Bale Opener — Style 27. Front View**  
 For floor plan see page 36. For power required see page 61



Section of Hopper Bale Opener — Style 27



### Hopper Bale Opener—Style 27

For floor plan see page 36. For power required see page 61

## Hopper Bale Opener

**T**HIS machine was designed especially to overcome the expense of hand opening and mixing, and at the same time to secure a more thorough opening and more even mixing than was possible under the older method.

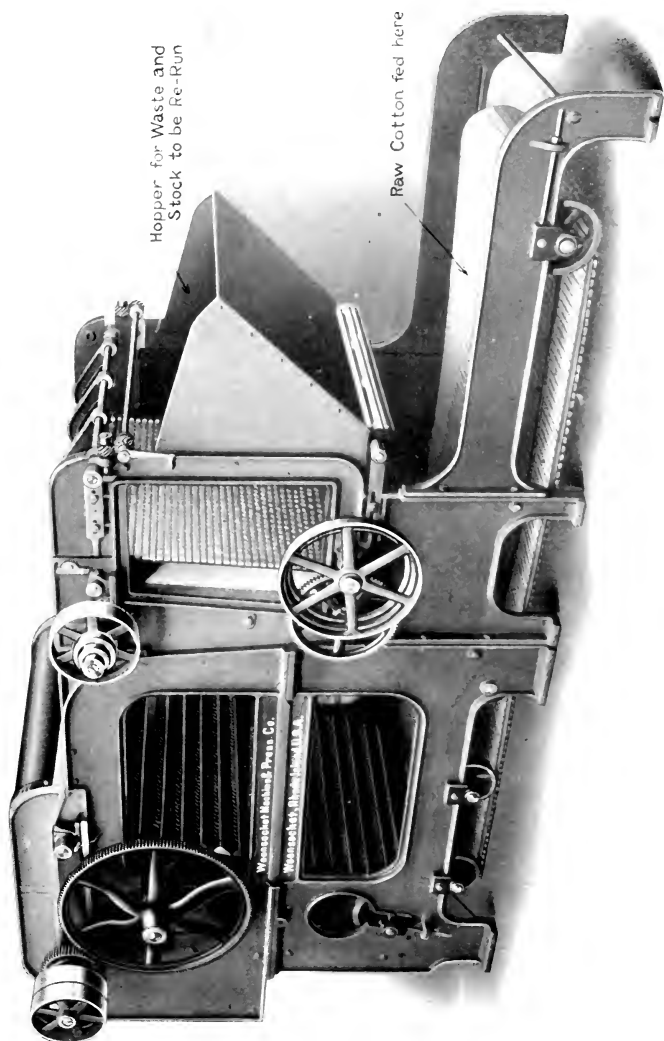
When the cotton is mixed by hand the stock is still in large bunches and matted to such an extent that when fed into the hoppers of ordinary openers, it is impossible to secure an even or thorough mixing.

The fluffy condition of the cotton as it is delivered from the Hopper Bale Opener shows the thorough manner in which the stock has been opened.

The feeding apron of the Hopper Bale Opener extends well back from the machine, ordinarily about four feet, which makes possible the grouping of a number of bales around the machine. In the operation of the machine, stock is taken from first one bale and then another and placed on the horizontal apron. Thus a very even mix is obtained from the various bales. If desired this idea can still further be carried out by extending the apron farther back.

The slow-moving horizontal apron carries the cotton forward, after which it is taken by the more rapidly moving spiked elevating apron, which subjects the cotton to a sort of combing action. At the top of this apron, is a spiked cylinder which further combs the cotton and throws back into the hopper any unopened pieces.

A stripping beater with stiff leather blades strips the cotton from the spiked apron and delivers it into a box, from which it is taken by the distributing systems.



**Bale Opener and Stock Mixer — Style 37**

Patented

For floor plan see page 37. For power required see page 61

## Style 37

### Bale Opener and Stock Mixer

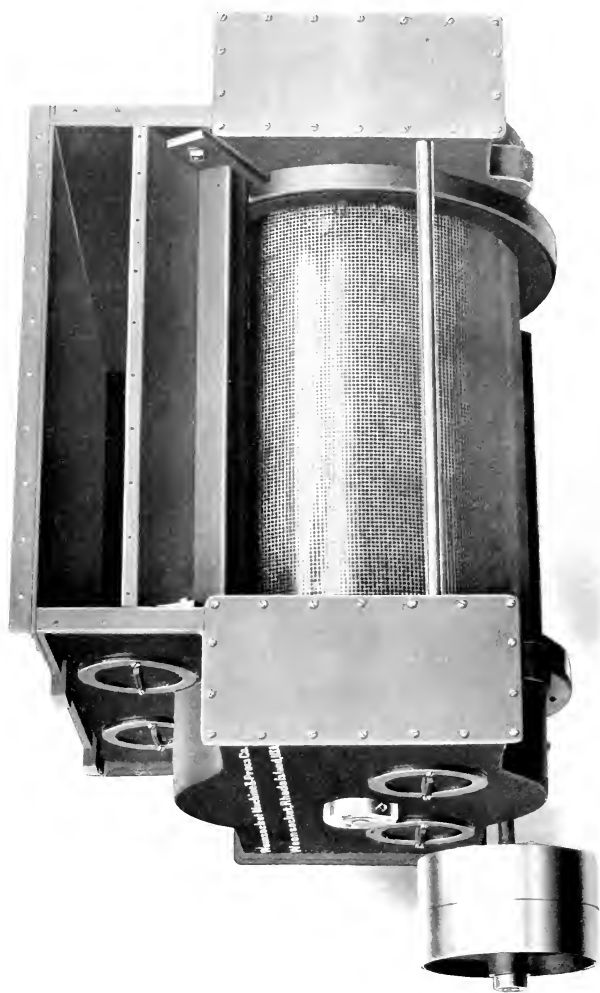
**T**HE purpose of this machine is to open the raw cotton and mix with it the card sliver, drawing sliver, etc. This has to be re-run by all mills and is usually termed "waste."

Card and drawing sliver, and comber lap waste can be put directly into the waste hopper, and will be thoroughly torn up by the action of the spiked apron and comb.

Spinners "stick waste" should be run through a thread extractor first, and roving "waste" should be run through a roving waste machine before putting into hopper.

The Waste Hopper **MAY** also be used to mix in a lower grade or shorter staple bale, which from choice or necessity it may be desirable to distribute amongst a number of bales.

We can arrange this waste hopper in connection with our Double Hopper Feeder so that colored cottons could be mixed with raw stock more evenly than by weighing separately and mixing on the floor.



**Overhead Condenser for Cotton Conveying — Style 5**

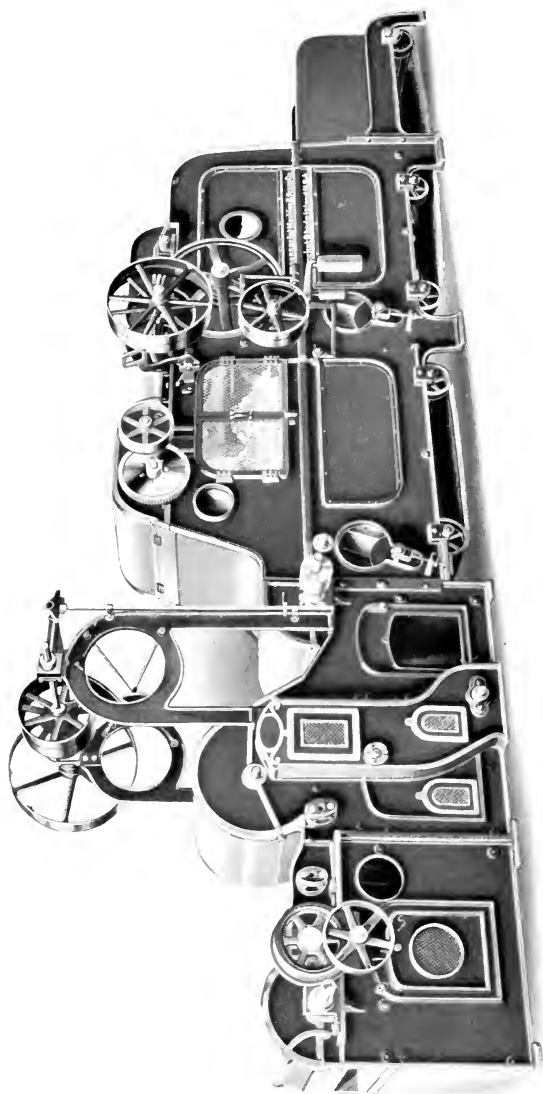
For Dimensions see page 38



## Cotton Conveying Systems

**T**HE installation of a hopper bale opener makes the use of a distributing lattice eminently satisfactory. When the opener is some distance from the lattice, a suction fan and condenser system should be used, but when the distance is very short an elevating lattice may be used, dropping the cotton directly onto the distributing lattice.

Our blowing systems, condensers, fans, cleaning trunking, and our distributing lattices are heavily built, and capable of easily doing the work for which they are designed.



**Opener with Double Hopper Feeder—Style 19**

For floor space see page 39. For power required see page 61

## Style 19

### Trunking Opener with Double Hopper Feeder

(See drawing on page 15)

**T**HIS machine will handle cotton either direct from the bale or from mixing bins, as preferred. The operation is as follows:

The cotton is thrown onto the rear apron at *A* and is carried inside of the machine and rolled up in the form of a ball as shown in outline. A very heavy spiked apron *B* acts on this cotton intermittently and carries the cotton over into the hopper *V*, maintaining a constant supply of cotton to be acted on by the spiked apron *D*, this spiked apron being of the usual weight of slat and pin.

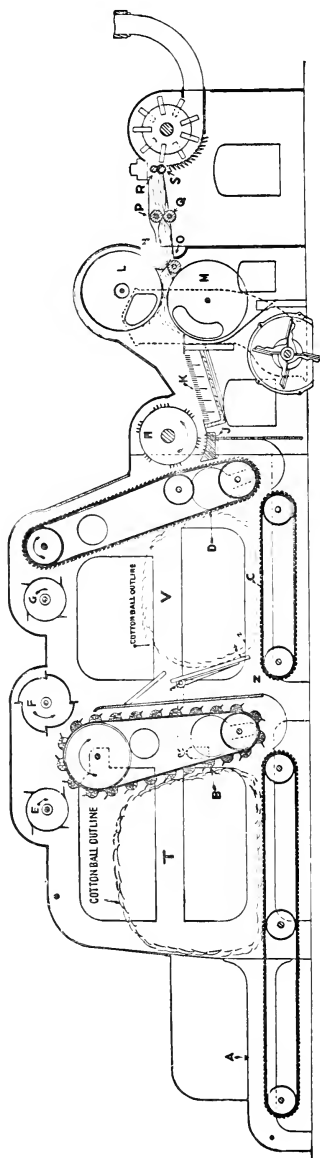
The intermittent action of the apron *B* is accomplished by the following means: Letter *Y* shows a feeler plate pressing against the back of the cotton in hopper *V* and hinged on a shaft at *X*. The end of the feeler at *Y* will work back and forth from *Z* to *Z*, it being constantly held up against the cotton by means of a weight lever on the outside of the machine acting through shaft *X*. This weight by means of levers connected to a belt shipper starts the apron *B* when the cotton in chamber *V* gets slightly below its normal supply and allows point of *Y* to approach *Z*. As soon as the apron *B* delivers cotton enough into chamber *V*, the feeler *Y* is pressed back toward the point *Z*, and this pushes the belt onto the loose pulley and apron *B* stops until the cotton in chamber *V* allows the feeler to swing again over toward the point *Z*, when the operation is again repeated; this action taking place constantly without any attention.

By maintaining in the chamber *V* a constant quantity of cotton, the spiked apron *D* acts under uniform conditions, and therefore delivers a regular quantity of cotton. The apron *D* is stripped by the pin beater *H* and the cotton is carried up to

the cages *L* and *M* by the suction from the fan. The flat grid bars *K* between the pin beater and cages are made of sheet steel. There are about forty (40) of them, these taking the place of the flat cast-iron leaf bars with which all are familiar. Between the cages and the first beater, we have increased the distance over the usual construction in order to give a larger seed dropping chamber *W* under the beater, and in order to carry the cotton from the stripping rolls *N* and *O* to the feed rolls *R* and *S*, we have added a pair of carrier rolls, *P* and *Q*. This machine delivers an even, regular sheet of cotton to the feed rolls of the first beater *R* and *S*, thereby giving the beater a constant and an even sheet to operate on, and owing to the evenness of the sheet, the cotton is held firmly between the feed rolls without thin places to be drawn through without beating.

The suction fan connected with the cages *L* and *M* obtains its air supply from the opening over the feed apron *A*, and thus circulates through the hoppers, coming in close contact with the tumbling cotton and has a very beneficial action on same, and adds greatly to the efficiency of the cleaning and beating process which follows, and also prevents dust and fly from escaping into the room.

The cotton, when it arrives at the feed rolls *R* and *S*, is thoroughly loosened up and bloomed, ready for the action of beating without danger of injuring the staple.



Opener with Double Hopper Feeder—Style 19



**Two-Beater Breaker with patent Zigzag Trunk and Double Hopper Feeder—Style 10**

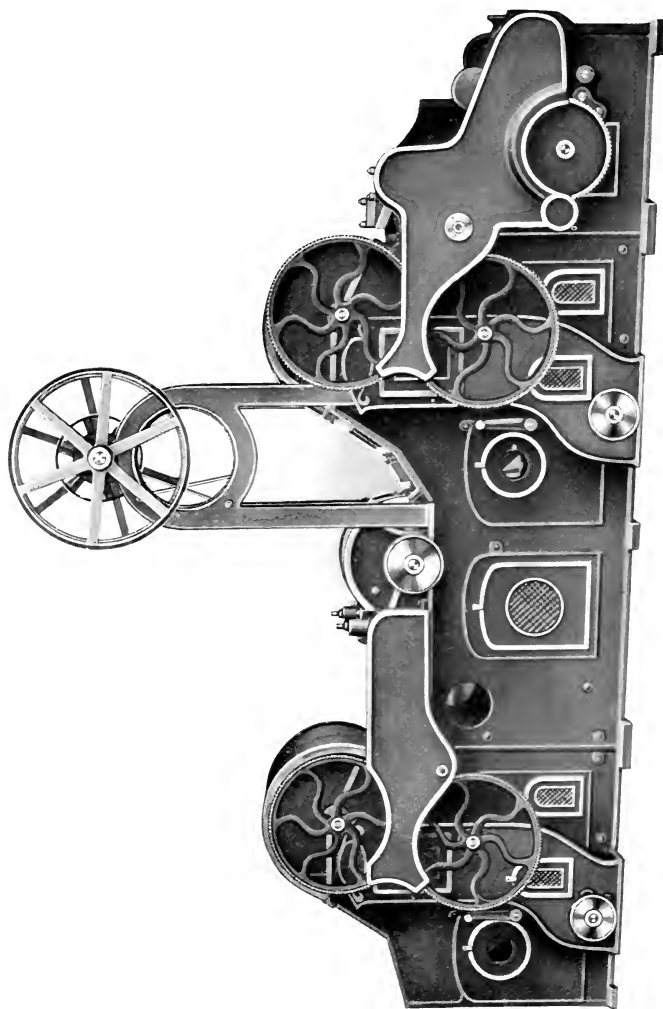
For floor space see page 41. For power required see page 61

## Style 10 Machine

**T**HIS is a combination of our Style 9 Breaker and No. 19 Opener with our patented sliding door cleaning trunk arranged all on one floor in a straight line to give the greatest amount of cleaning capacity possible for the given space.

This machine easily handles 4,000 pounds of cotton per day. The cleaning trunk dirt chambers are exhausted by the same fan that is used to draw the cotton through the trunking, this being provided for by a damper which cuts the draught off from the cages and connects it to the dirt chambers during the cleaning operation.

The cotton from the Opener Beater passes through the lower line of trunking first and is returned through the next line and so on until it reaches the condenser cage at the end of the top line. The cotton is taken from the cage by stripping rolls, and a pin beater in front of the stripping rolls tears the cotton into small pieces and it falls in an even manner onto the apron, which delivers it to a pair of feed rolls in front of the last beater, from which it is passed on to the cages and calender rolls in the usual manner.



**Breaker Lapper, arranged with Cage Section for Trunking Connection — Style 8**

For floor space see page 46. For power required see page 61

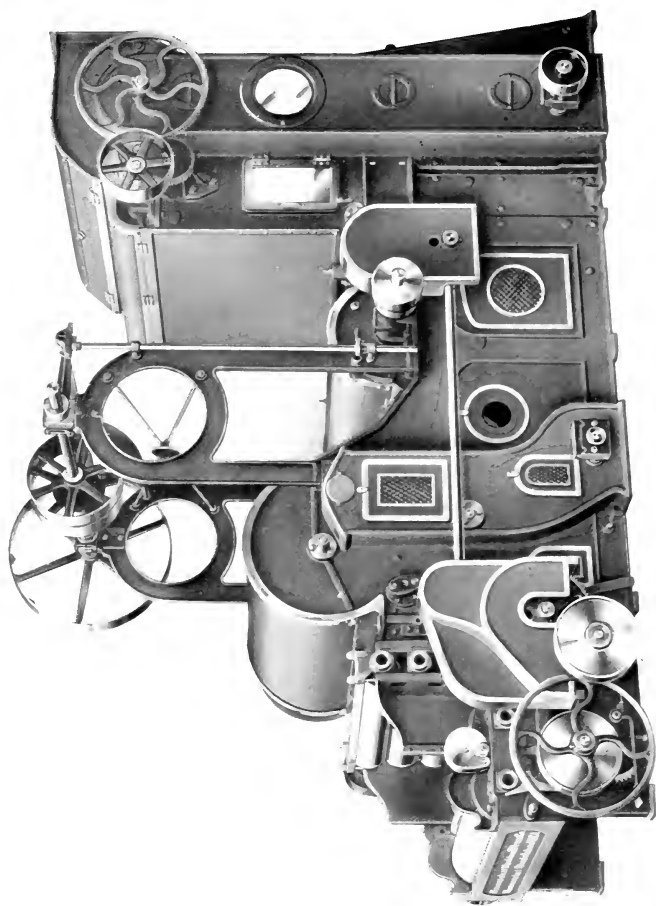


## **Style 8 Machine**

### **A One-Beater Breaker Lapper with Short Cage Section for Trunking Work**

**T**HIS machine is adapted for use with conducting trunk for conveying the cotton from an opener on a lower floor, or vice versa.

It can, however, be used with short lengths of cleaning truck and gives satisfactory results. The seed chambers are extra large and also the air inlets under the stripping plates, which give an ample volume of air for even distribution between the grid bars without causing whirlpools and eddies among the droppings to the detriment of the cleaning action of the grid bars.



**Breaker Lapper, arranged with Condenser Section for Trunking Connection—Style 9**

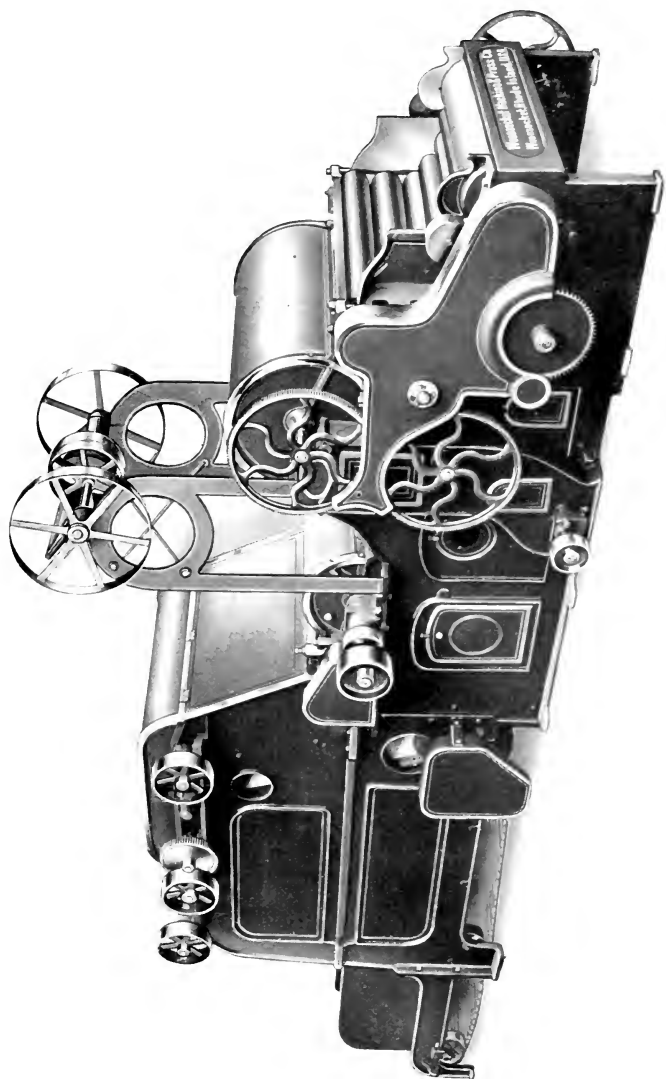
For floor space see page 46. For power required see page 61

## **Style 9 Machine**

### **A One-Beater Breaker with Condenser Section for Cleaning Trunking Connection**

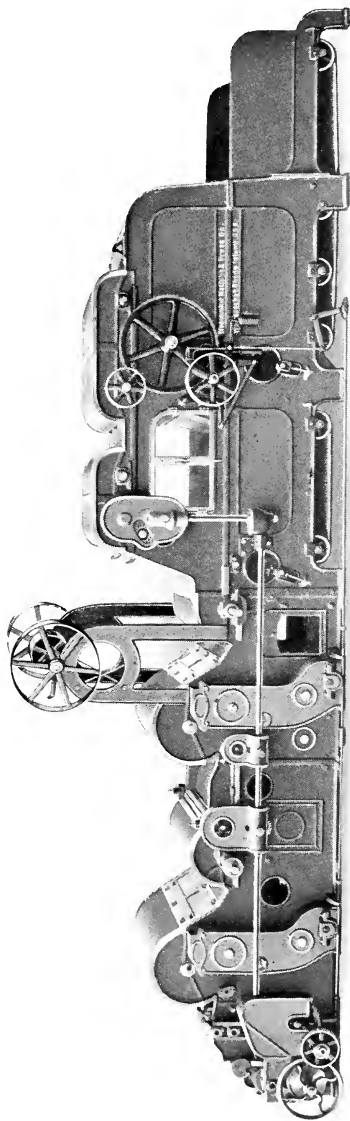
**T**HIS machine will do all that can be done by Style 8 and in addition will convey cotton through long lengths of piping, conducting and cleaning trunking, and it will deliver a better and more uniform sheet to the feed rolls, and by its use less trouble and stoppage of machines will be occasioned.

The frame sides and girts of this machine are all cast iron — no woodwork being used — and it is of a heavy and rigid construction and can be depended upon for a large production with ease.



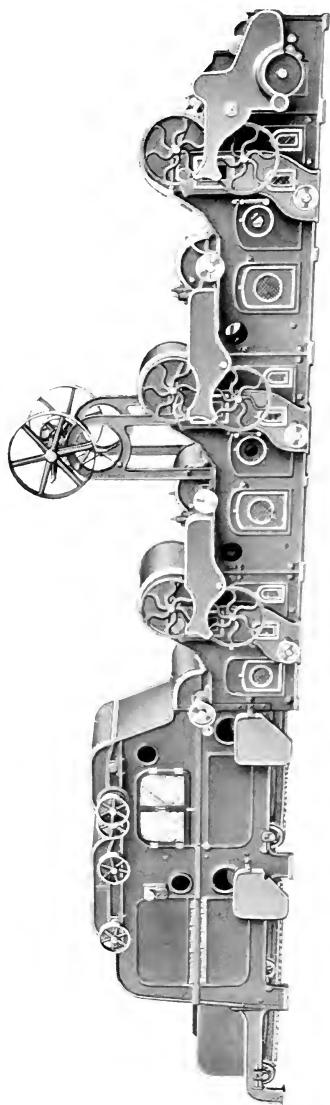
**Single Beater Breaker with Single Hopper Feeder—Style 28**

For floor space see page 43. For power required see page 61



### One-Beater Breaker with Double Hopper Feed Regulator—Style 21

For floor space see page 44. For power required see page 61



**Two-Beater Breaker with Double Hopper Feeder—Style 22**

For floor space see page 45. For power required see page 61

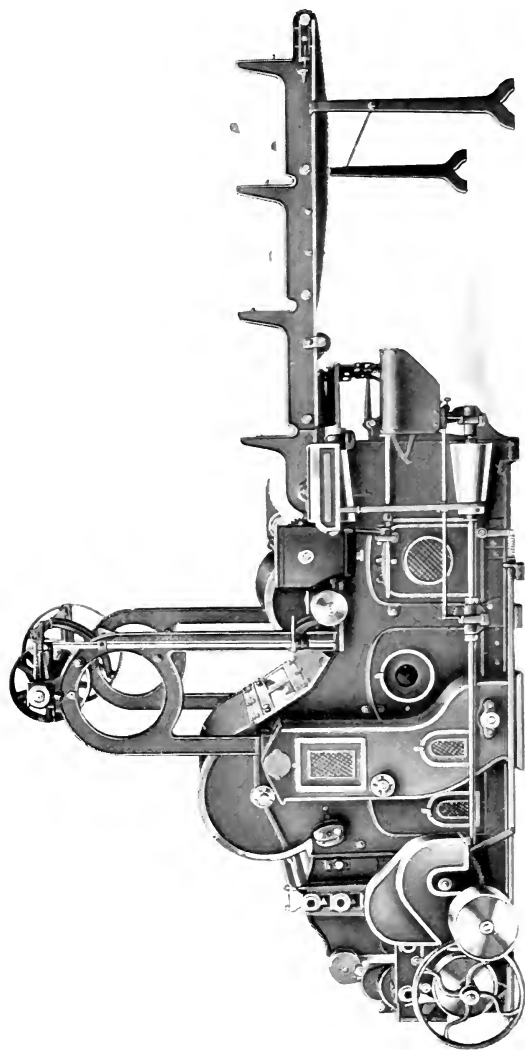
## **Styles 21 and 22 Machine**

### **A One- and Two-Beater Breaker with Double Hopper Feeder**

**T**HIS is a machine that for efficiency, production, and ease of operation cannot be equalled, the Feeder being the same as described in connection with the Style 19 Opener. This is followed by one and two 18-inch diameter beaters, the second one being rigid and the first one being either of the rigid or Buckley cylinder type, as preferred.

All dropping chambers are of extra large size, giving an abundance of seed room, and at the same time, ample size air inlets to give even distribution of the air necessary to be taken in through the grid bars for carrying the cotton into the cages and also for preventing good cotton being thrown out through the grid bars.

The capacity of this machine is from 4,000 to 6,000 pounds of cotton per day.



**Single Beater Finisher — Style 11**

For floor space see page 48. For power required see page 61



## Style 11

### Single Beater Finisher

**T**HIS machine is made by the same tools and processes and with the same care and precision that enters into our machine tool work. The beater and fan shaft are ground, all studs are case hardened and ground. High-speed gearing is all cut, and fast-running pinions are made of steel, cut and case hardened. All medium and high-speed bearings are ring oiling, the beater and fan bearings having been designed to overcome the trouble of oil leakage, which every carder knows has caused him serious annoyance by getting inside of the machine and onto the cotton, to say nothing of the cost of the oil. These bearings are oil-tight and neither allow oil to be drawn inside of machine or to leak outside.

The evener mechanism is so constructed that friction has almost been eliminated, and as a result, the slightest change in thickness of laps is at once recorded by the evener belt. This, of course, ensures an evenness of finished lap heretofore considered impossible.

Combined with the countershaft shipper handle is a locking device for the beater bonnet. This device locks the bonnet on starting, or if the bonnet is open the shipper is locked so that the machine cannot be started.

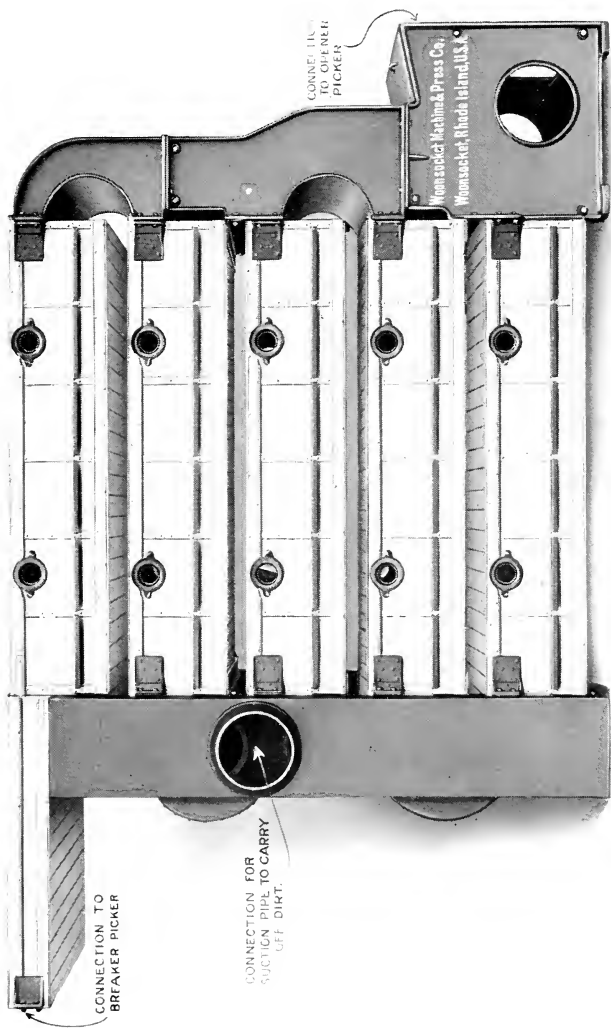
Improved forms of grid bars are used, the angle bars having milled knife edges, true and parallel to the edge of the beater blade. The flat dust bars are made of sheet steel, and owing to their thinness over double the usual number may be used and still keep the same spacing. We are thus enabled to clean the cotton better than has hitherto been possible.

Between the cage stripping rolls and the lap head we have applied our patented Anti-Split rolls, which prevent split laps.

There are two of these rolls; the lower one is composed of a series of steel discs on a shaft, which run in corresponding grooves in the upper roll; the cotton passing between them is corrugated lengthwise with small ribs which are pressed down by the calender rolls into reënforced strips which bind the sheet together.

The brake motion for the lap racks is adjusted by set screws for any desired friction, and change in same may be very quickly accomplished.

Everything about the machine is substantial, and in all its refinements none has been attained by a sacrifice of strength or ample wearing surface. We guarantee this picker to do better cleaning and evening with less cost for power, oil, and repair than any other machine on the market. The quality of the workmanship throughout is well illustrated by the fact that when running either idle or operating on cotton one can hardly tell from the sense of hearing that gears have any place in its construction, and the general appearance of the machine is such as to commend it to all who like nice lines and high finish in the machinery of their mills.



**Zigzag Dust Trunking**



**Thread Extractor—Style 7**

For floor space see page 49. For power required see page 61

## **Style 7**

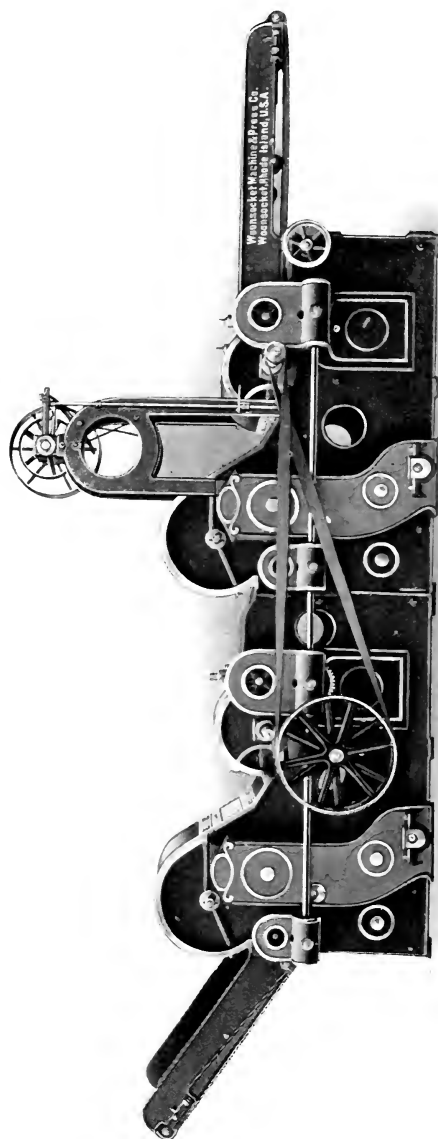
### **Thread Extractor**

**T**HIS machine is of first-class construction, and will extract a larger percentage of threads than other makes.

It occupies a floor space of 4 feet 8 inches x 4 feet 8 inches, and the countershaft should run at a speed of 650 r. p. m.

It is a superior machine for cleaning card and picker waste, and will handle about 1,000 pounds per day—gross weight.

We can furnish this machine with an automatic self feeder, in which case the floor space will be 10 feet x 4 feet 8 inches.



**Roving Waste Opener with Two Beaters — Style 33**  
For floor space see page 51. For power required see page 61

## **Roving and Hard Waste Machine**

**T**HIS machine is made in from one to five sections in lengths according to the work to be performed. It was originally designed to open roving waste and was built in one and two sections. A large demand has made it necessary to add sections up to five in number to handle thread, cop waste, knitting clippings, etc. The cylinder pins are made finer as the material is delivered from cylinder to cylinder, delivering the stock thoroughly opened and cleaned. Production is governed by the grade of product desired and will average 2,000 lbs. per day of roving waste and 1,000 to 1,400 pounds of hard waste.

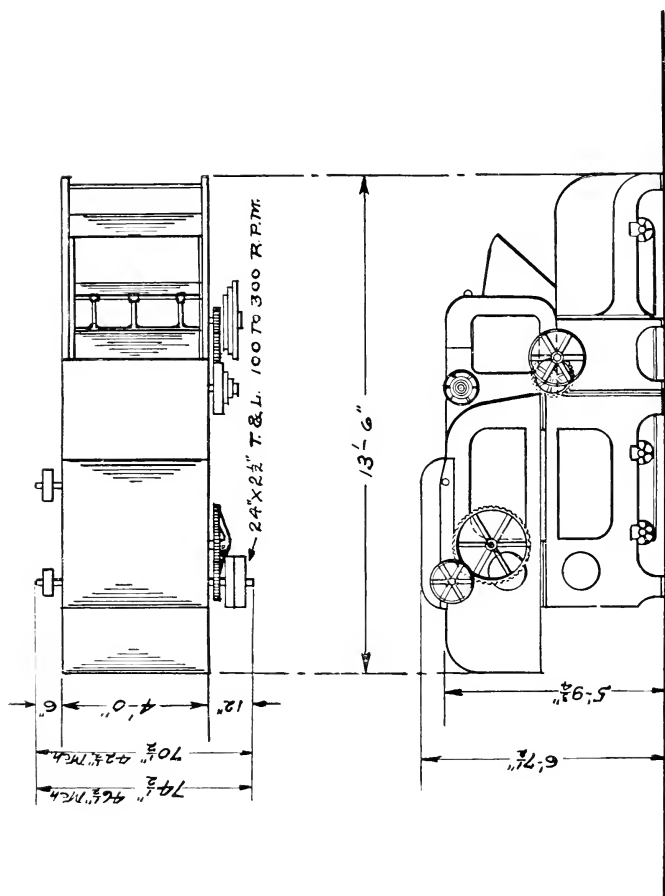




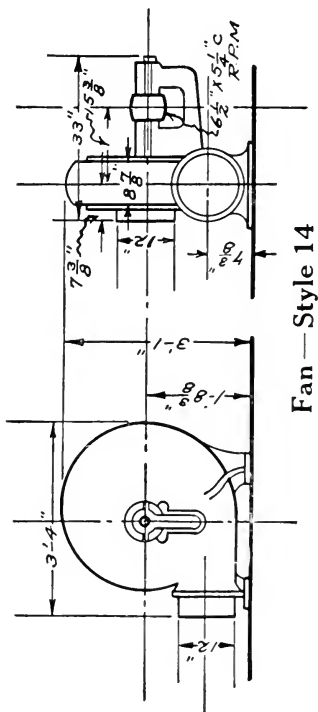
## Floor Plans

ON the following pages are shown outline drawings and elevations of the various styles and combinations of Feeders, Openers, Pickers, Dust Trunking, etc. Our experience has shown that every picker room equipment must be laid out individually as the location, size of building, kind of stock handled, and convenience of handling require a different set of machines or layout. We therefore have competent engineers to suggest and furnish proper picker room machinery layouts to meet the varying conditions which may exist. This service is at your disposal.

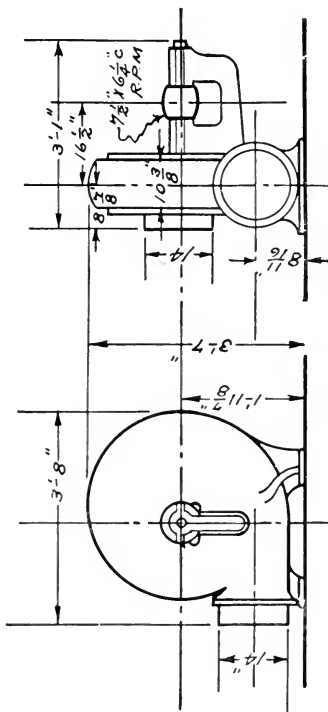




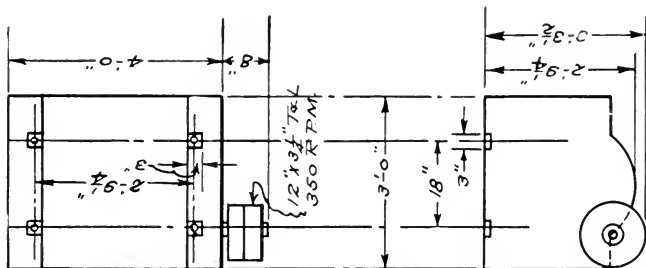
Bale Opener and Stock Mixer — Style 37

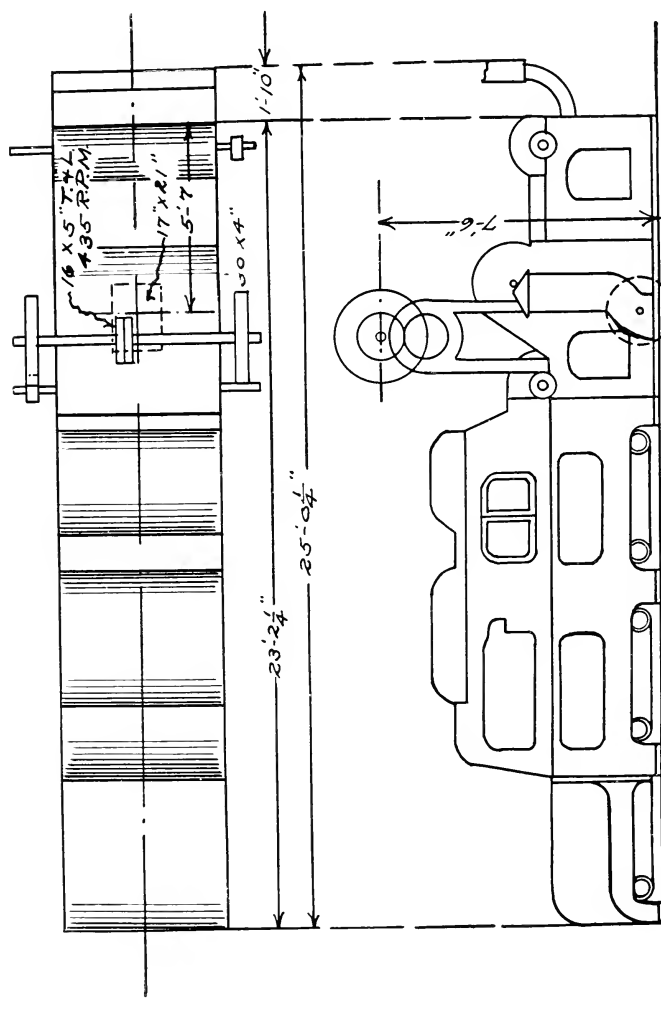


Fan—Style 14

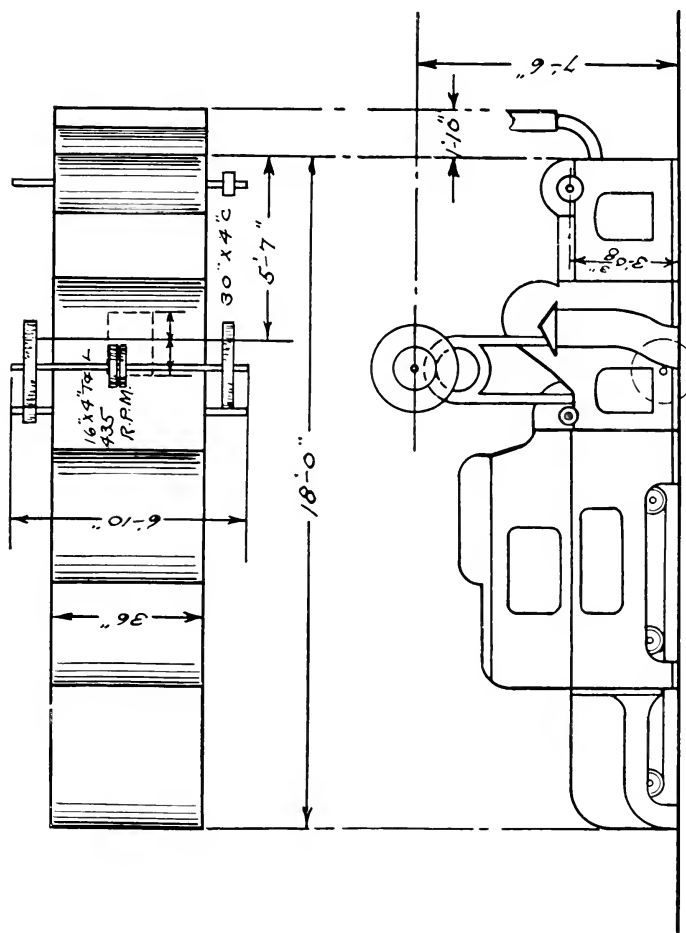


Fan—Style 15

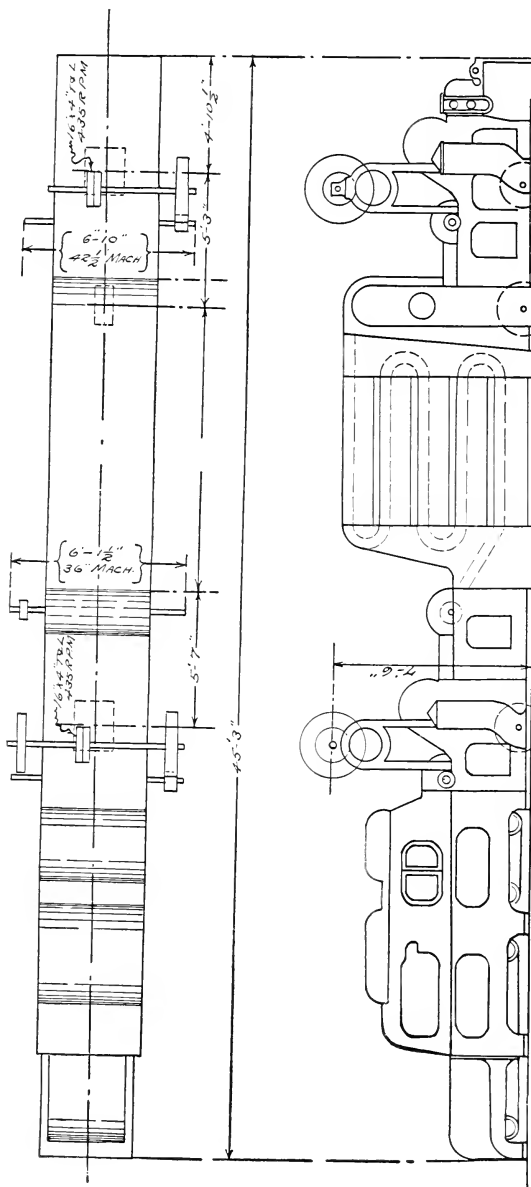
Small Size Condenser  
Style 5



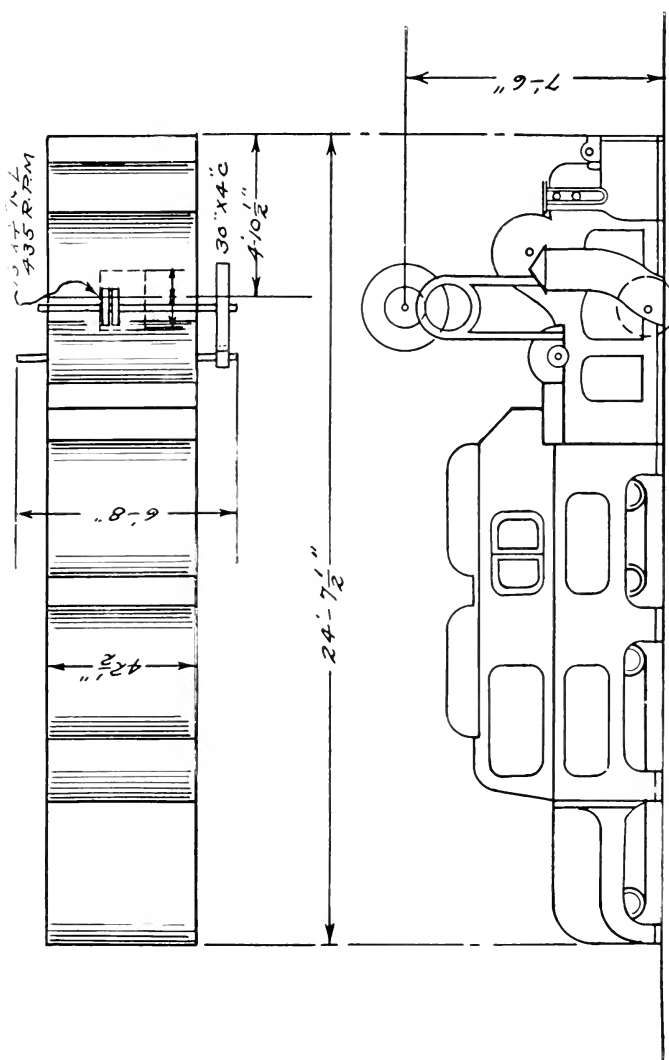
Opener with Double Hopper Feed and Cage Section — Style 19



One-Beater Opener with Single Hopper Feeder — Style 23

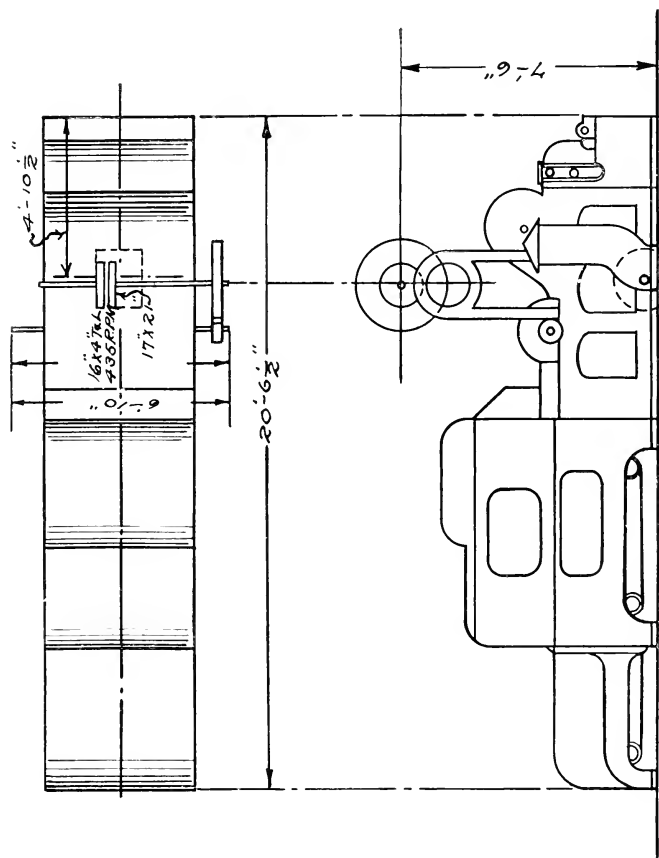


Two-Beater Breaker with 30 ft. of Cleaning Trunking—Style 10

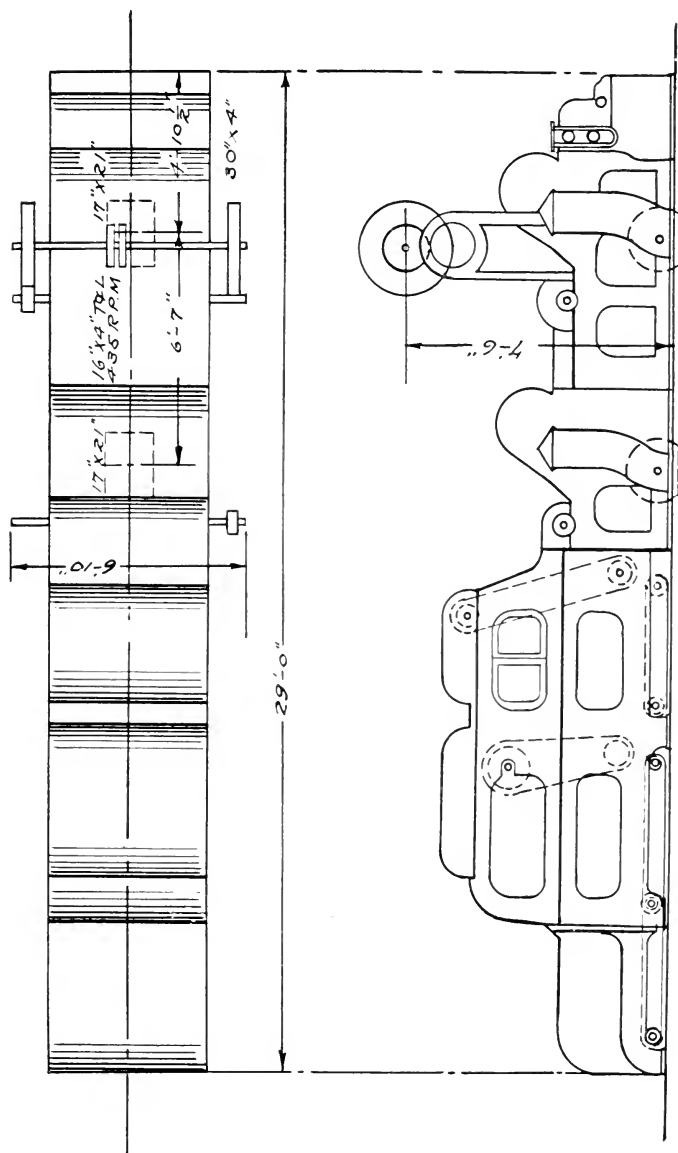


One-Beater Breaker with Double Hopper Feeder — Style 30

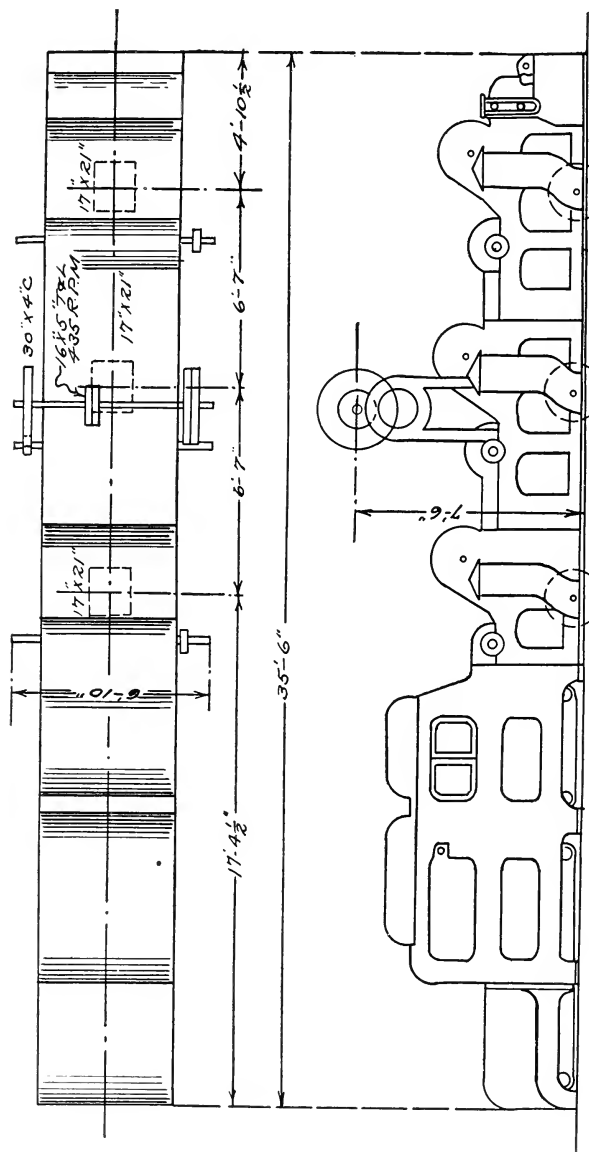




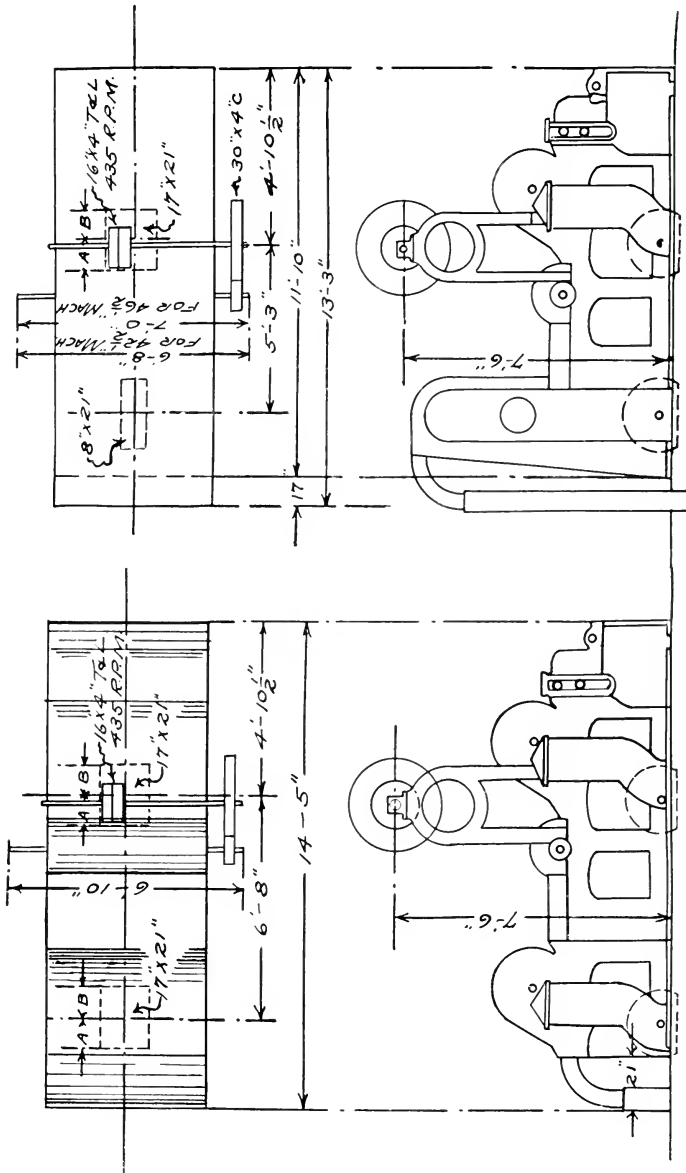
Single Beater Breaker with Single Hopper Feeder — Style 28



One-Beater Breaker with Double Hopper Feeder—Style 21

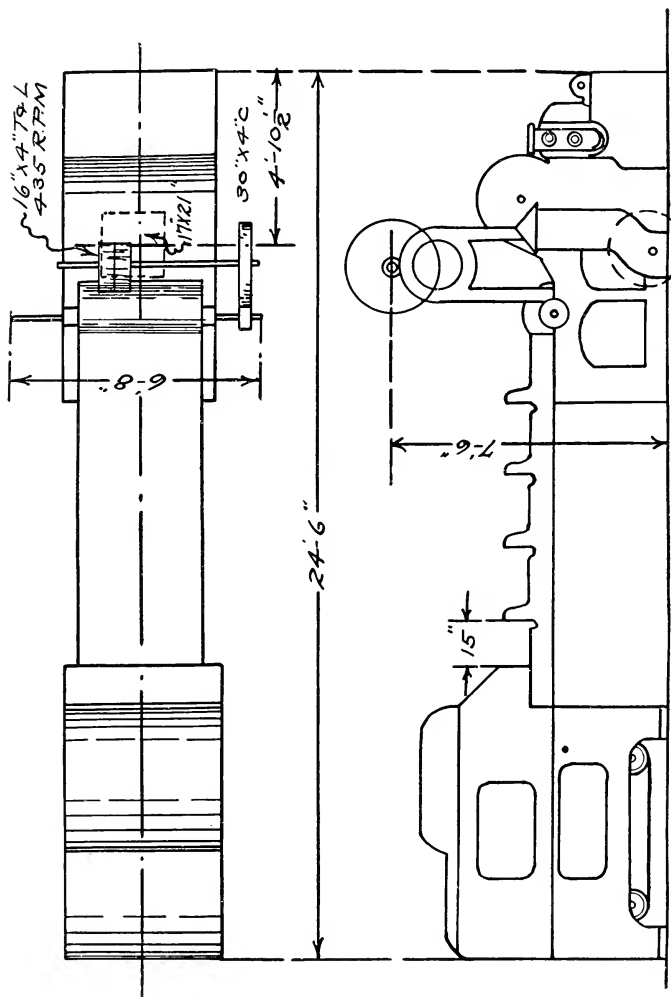


Two-Beater Breaker with Double Hopper Feeder—Style 22

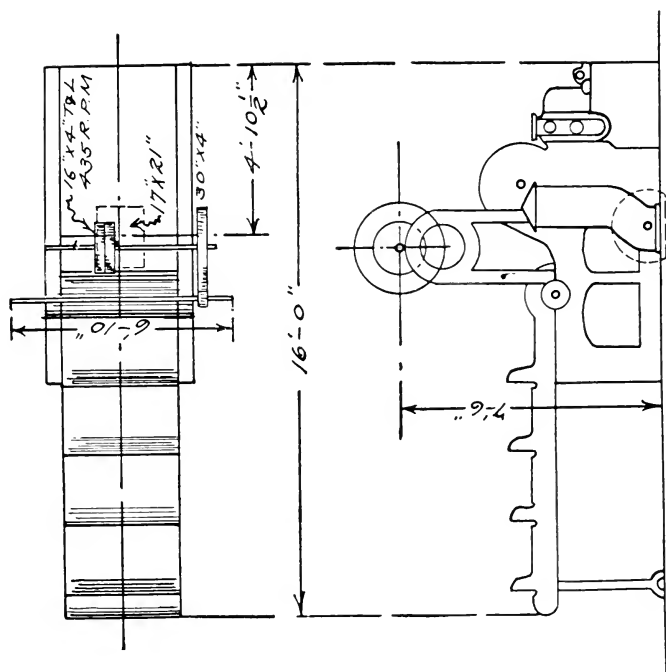


Single Beater Breaker  
with Cage Section — Style 8

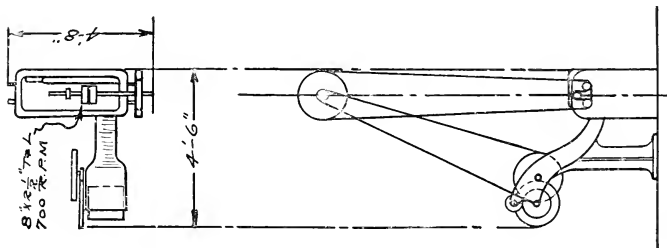
One-Beater Breaker  
with Condenser Section — Style 9



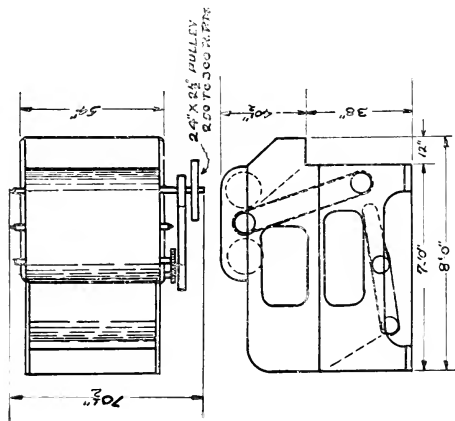
Combination Breaker and Finisher—Style 16



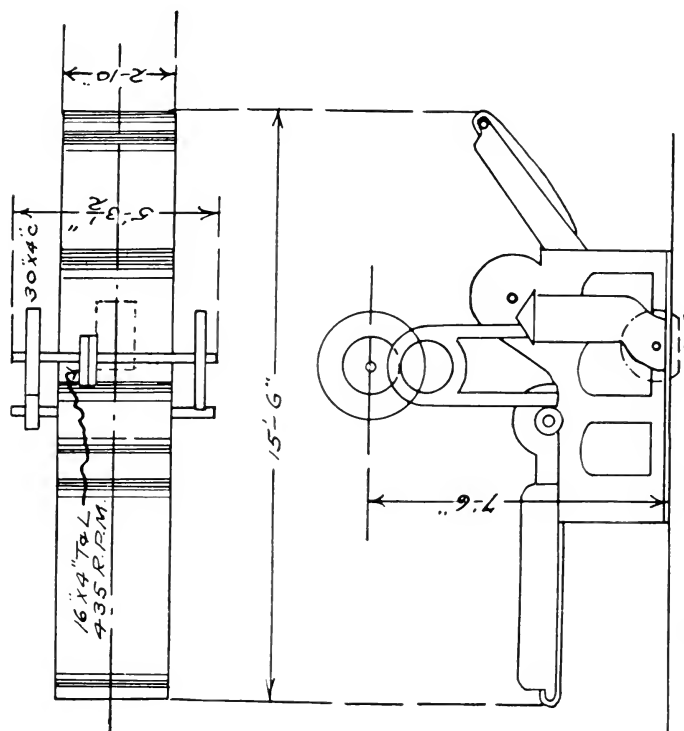
Single Beater Finisher—Style 11



Thread Extractor  
Style 7

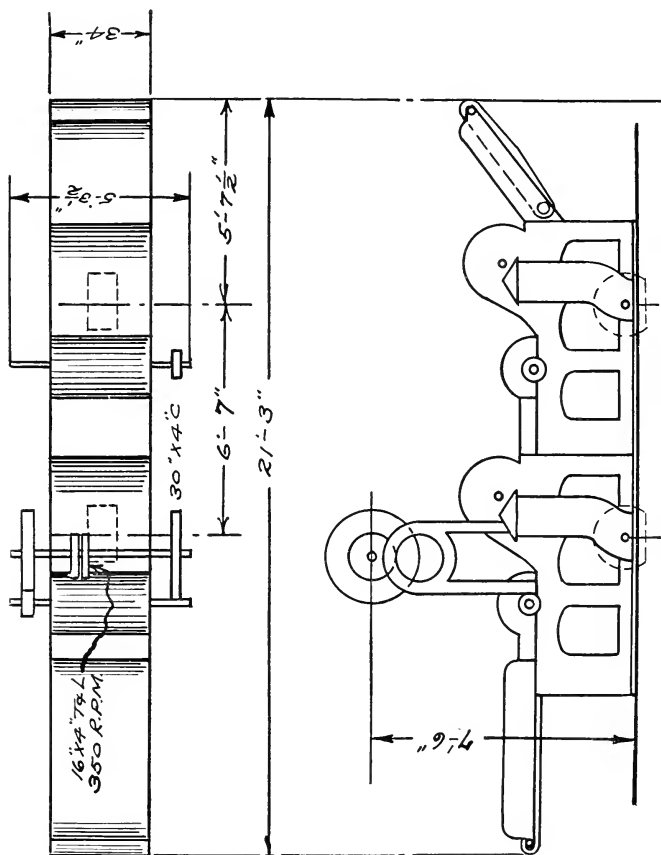


Single Hopper Feeder  
Style 34

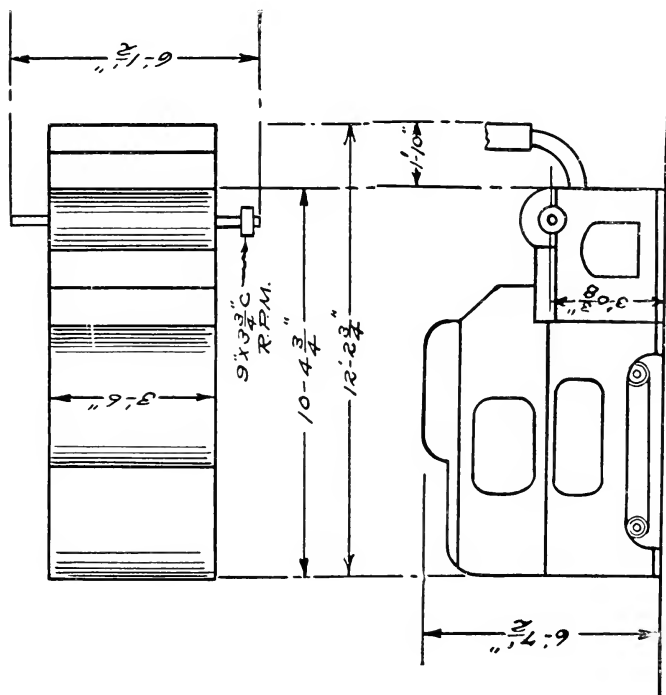


Single Beater Roving Waste Opener—Style 32

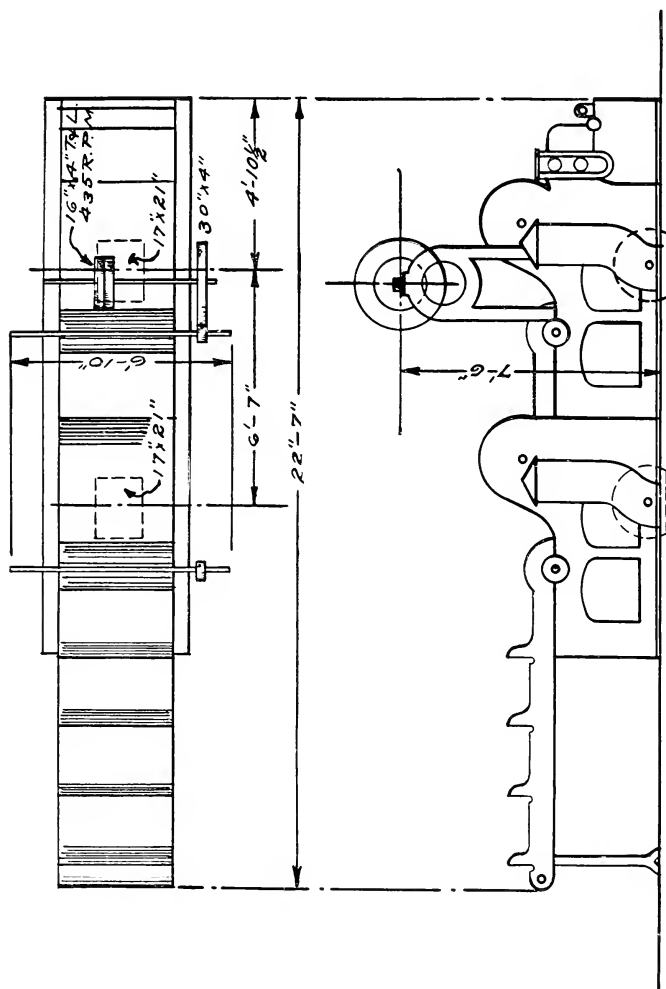




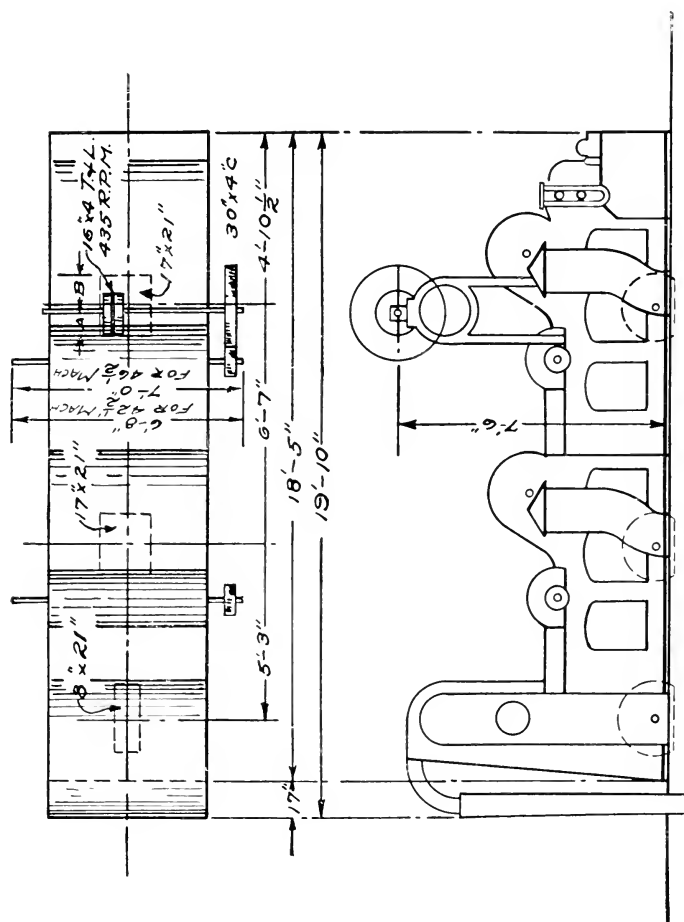
Two-Beater Roving Waste Opener—Style 33

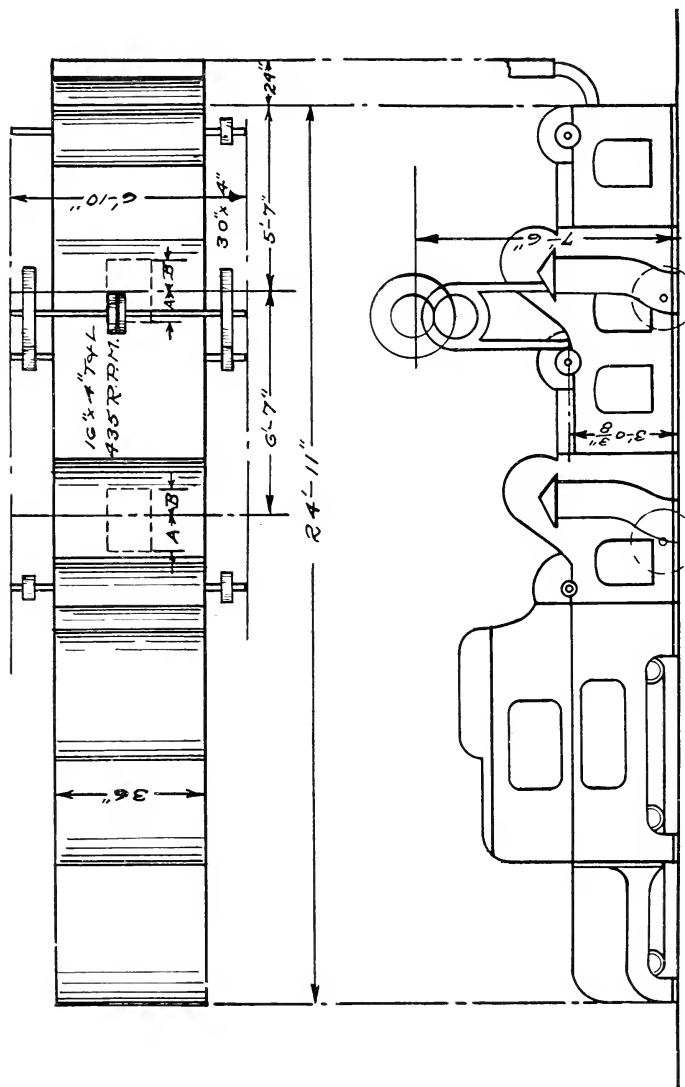


Opener with Single Hopper Feeder—Style 17



Two-Beater Finisher—Style 12





Two-Beater Opener with Single Hopper Feed and Cage Section — Style 24

Front View

## Beater and Feed Roll Settings

Space to be allowed between Feed Rolls and Beaters

Blade Beaters	1st Beater	2nd Beater	3rd Beater	4th Beater
$\frac{7}{8}$ to $1\frac{1}{4}$ " Staple	$\frac{3}{16}$ to $\frac{1}{4}$	$\frac{5}{32}$	$\frac{1}{8}$	$\frac{1}{8}$
$1\frac{1}{4}$ to $1\frac{1}{2}$ "	$\frac{1}{4}$	$\frac{3}{16}$	$\frac{1}{8}$ to $\frac{5}{32}$	
$1\frac{1}{2}$ up —	$\frac{1}{4}$ to $\frac{5}{16}$	$\frac{3}{16}$		

## Kirschner Beaters

or Pin Lag

Kirschner Beaters give the best results as regards cleaning when set so as just to clear the feed roll, and are therefore more suitable for the finisher picker.

# Production in Pounds per Day of 10 Hours

10% Allowed for Stoppages

Figured at 1400 Revolutions of Beater

## FINISHER

Weight of Lap in Ounces per yard

Feed Pulley Diam.	10	11	12	13	14	15	16	17	18	19	20
4	1380	1530	1660	1800	1920	2075	2200				
5	1740	1910	2075	2250	2425	2600	2775				
6	2075	2275	2500	2700	2900	3100	3300				
7	2430	2660	2900	3150	3400	3650	3880				
8	2775	3050	3325	3600	3875	4150	4400				

## BREAKER

Weight of Lap in Ounces per yard

Feed Pulley Diam.	10	11	12	13	14	15	16	17	18	19	20
4					2375	2560	2750	2900	3075	3250	3420
5					3000	3200	3420	3640	3850	4050	4260
6					3575	3850	4100	4350	4600	4850	5100
7					4200	4500	4775	5075	5350	5650	5950
8					4775	5100	5450	5800	6150	6500	6850

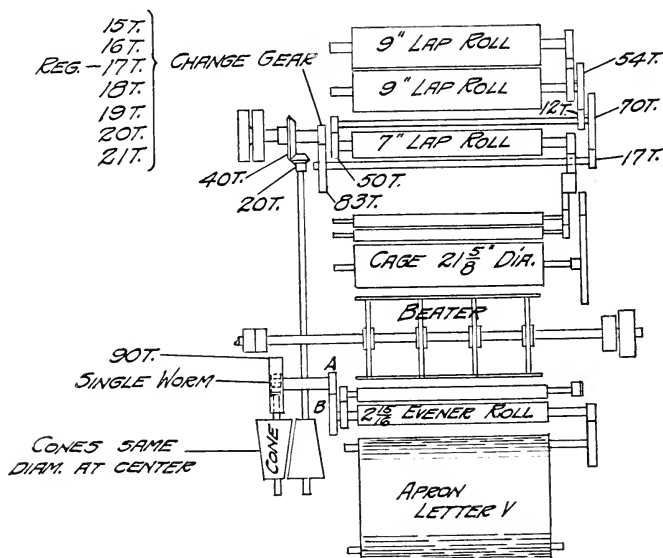
## Draft Table of Intermediate and Finisher Pickers

Constant .2190 Evener Roll Gear 22 T into 9 T on Worm Shaft		Constant .3074 Evener Roll Gear 24 T into 7 T on Worm Shaft	
Teeth Ch. Gear	Draft	Teeth Ch. Gear	Draft
15	3.285	15	4.611
16	3.504	16	4.918
17	3.723	17	5.226
18	3.942	18	5.533
19	4.161	19	5.840
20	4.380	20	6.148
21	4.599	21	6.455

Above draft tables are calculated assuming the Evener Belt running at center of cones at which point the diameters are equal.

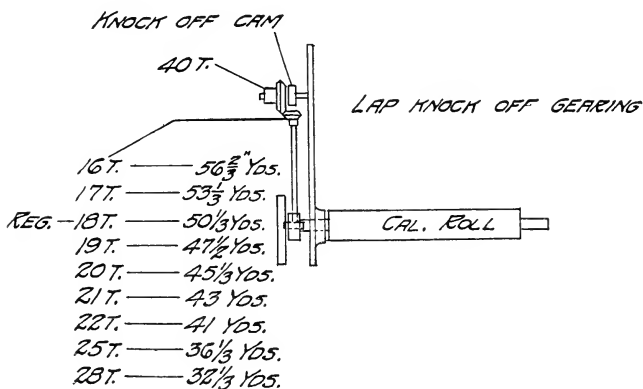
The limit of range of cone belt can increase draft 100% or decrease draft 50% from above table.





A = 9T. — 7T.

B = 22T. — 24T.



Gear Diagram of Intermediate and Finisher Pickers

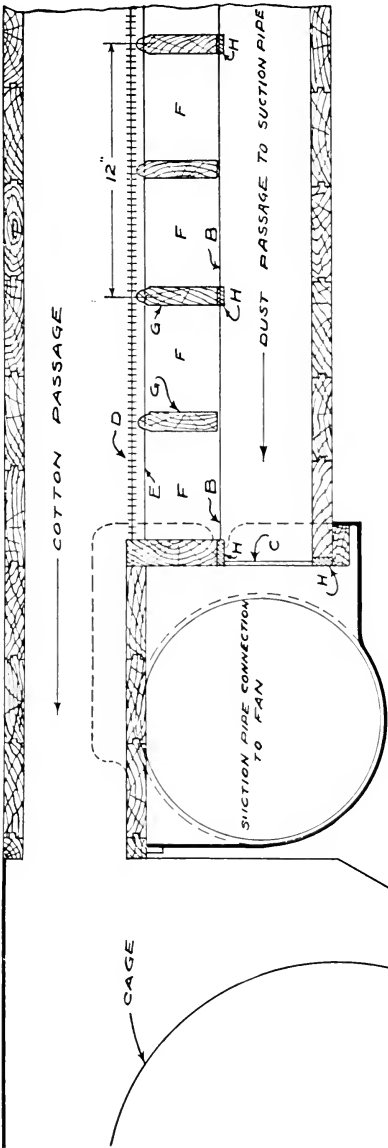
## Schedule of Belting Required for Various Style Pickers

No.		3 1/2" Light Double	3" Light Double	2 1/4" Single	1 1/2" Light Double	1 Single
8	Single Beater Breaker with Cage Section . . . .	15' 0"	0	34' 6"	0	0
9	Breaker, One Beater with High Condenser . . . .	15' 0"	0	60' 0"	0	0
10	Breaker, Two Beater with 30-ft. Cleaning Trunk . . . .	35' 0"	17'	104' 0"	8'	0
11	Single Beater Finisher . . . . .	15' 0"	0	22' 0"	0	6' 6"
12	Two-Beater Finisher . . . . .	35' 0"	0	31'	0	6' 6"
13	Breaker, Two Beater with High Condenser . . . .	35' 0"	0	72'	0	0
17	Opener, One Beater and Single Hopper . . . . .	Overhead C 25' to 35'	0	25'	0	0
18	Opener, One Beater and Double Hopper . . . . .	25' to 35'	0	65'	8' 0"	0
19	Opener, with Double Hopper Feed and Cage Sec. . . .	15' 0"	17' 0"	44' 0"	8' 0"	0
21	Breaker, One Beater Straight Mch. . . . .	15' 0"	17' 0"	65' 0"	8' 0"	0
22	Breaker, Two Beater Straight Mch. . . . .	35' 0"	17' 0"	75' 0"	8' 0"	0
23	Opener, One Beater . . . . .	15'	17'	35'	0	0
24	Opener, Two Beater . . . . .	35'	17'	50'	0	0
26	Bale Opener for Lattice Distribution . . . . .	0	0	40'to 50"	0	0
27	Bale Opener for Pipe Distribution . . . . .	0	0	40'to 50"	0	0
28	Breaker, One Beater Single Hopper Feed . . . .	15' 0"	0	48'	0	0
29	Breaker, Two Beater Single Hopper Feed . . . .	35'	0	57'	0	0
30	Breaker, One Beater Double Hopper Feed . . . .	15'	0	88'	8' 0"	0
31	Breaker, Two Beater Double Hopper Feed . . . .	35'	0	110'	8' 0"	0
32	Roving Waste Opener, One Beater . . . . .	15'	0	20'	0	0
33	Roving Waste Opener, Two Beater . . . . .	35'	0	42'	0	0
37	Bale Opener . . . . .	0	0	65'	Single 8' 6"	0

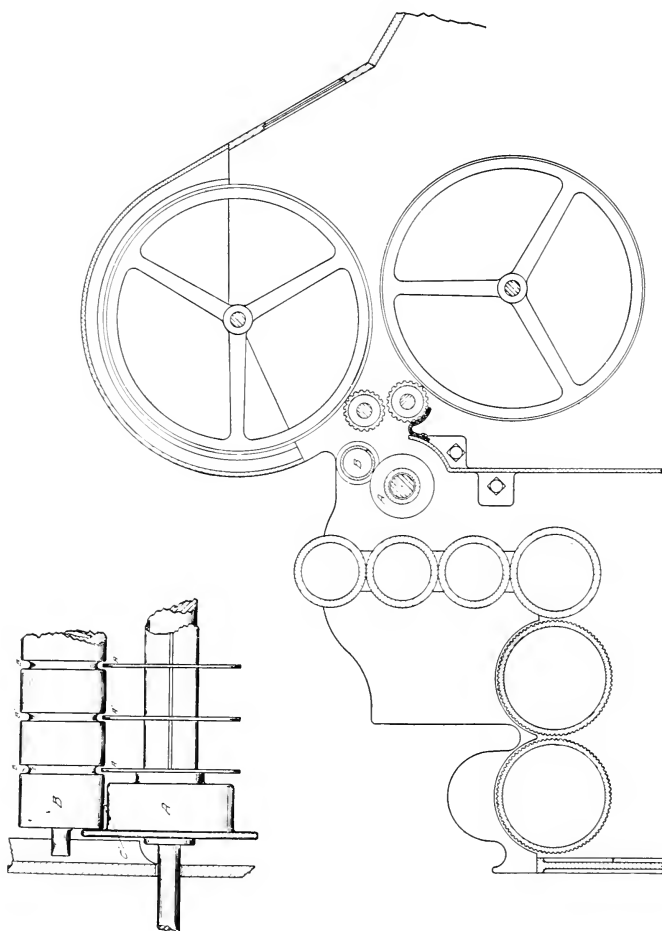
## Average Power Required to Drive Cotton Picker Room Machinery

Style No.	Name of Machine	Type Beater	Normal Speed Beater Pulley of Counter	Width of Machine	Horse Power	Individual Drive Size Motor
7	Thread Extractor . . .	—	2200		3	5
8	Breaker, one beater .	Rigid	1300	40"	6	7½
9	Breaker, one beater .	Rigid	1300	40"	7	7½
10	Breaker, two beater } Rigid	Buckley	1300	40"	16	2-10
11	Finisher, one beater .	Rigid	1300	40"	4½	5
12	Finisher, two beater .	Rigid	1200	40"	8½	10
13	Breaker, two beater .	Rigid	1300	40"	12	15
14	Fan, 12" . . . . .	—	1200	12"	4½	5
15	Fan, 14" . . . . .	—	1200	14"	8	10
16	Finisher, with feeder .	Rigid	1200	40"	6	7½
17	Opener, single hopper	Buckley	1300	36"	4	5
18	Opener, double hopper	Buckley	1300	36"	6	7½
19	Opener, double hopper	Buckley	1300	36"	7½	7½
21	Breaker, one beater .	Rigid	1300	40"	8	10
22	Breaker, two beater } Rigid	Buckley	1300	40"	13	15
23	Opener . . . . .	Buckley	1300	36"	6	7½
24	Opener . . . . .	Buckley	1300	36"	12	15
25	Auto Distributing Lat-tice . . . . .	—	Each	25 Feet	1	
26	Hopper Bale Opener .	—	300	40"	2½	3
27	Hopper Bale Opener .	—	300	40"	2½	3
28	Breaker, one beater .	Rigid	1300	40"	6	7½
29	Breaker, two beater } Rigid	Buckley	1300	40"	10	10
30	Breaker, one beater .	Rigid	1300	40"	7	7½
31	Breaker, two beater } Rigid	Buckley	1300	40"	12	15
32	Roving Waste Opener	Pin	1300	24"	4	5
33	Roving Waste Opener	Pin	1300	24"	7	7½
34	Feeder . . . . .	—	300	36"	¾	1
35	Opener, two beater } Rigid	Buckley	1300	36"	12	15
37	Hopper Bale Opener and Stock Mixer .	—	300	40"	3	3

The above table is published as a guide to determine the size of motor for individual drive which has become so popular in recent years. The actual power required will of course vary according to the local conditions and the class of cotton; also settings of beaters and the speed required.



Section through Cleaning Trunk



### Patented Anti-Split Rolls

Elevation Showing Anti-Split Roll "A" and Anti-Split Presser Roll "B"

Surface speed of disc A is greater than speed at bottom of groove B and thereby separates the cotton fibres and breaks up any layers that may by any means be formed within the lap or sheet of cotton. At the point C the surface speeds of A and B are the same.

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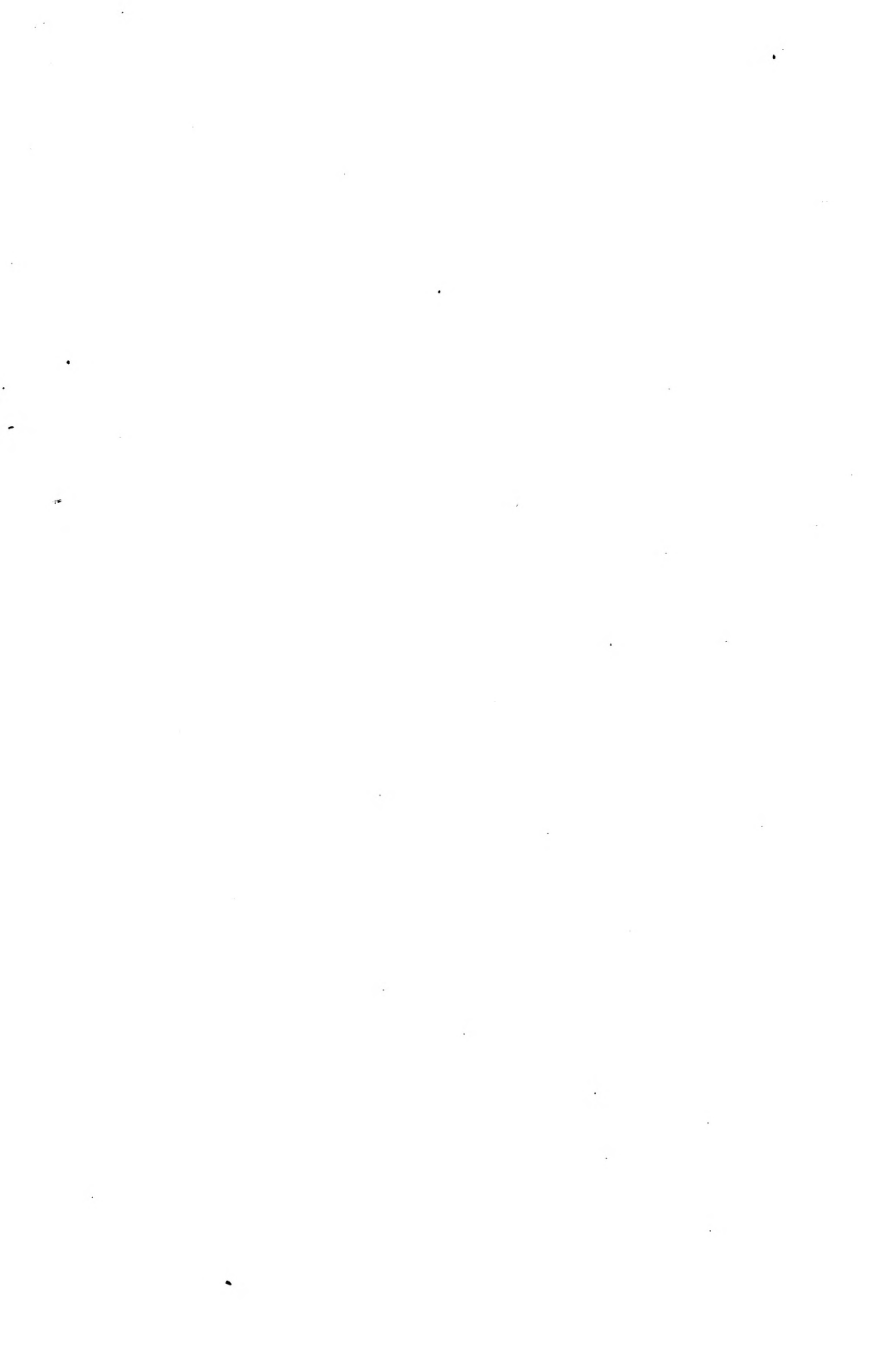












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